



Mod-0037.ST25.txt
SEQUENCE LISTING

<110> Jarrell, Kevin A.
Vishwanath, Prashanth
Smith, Temple
Short, Glenn F.

<120> Alien Sequences

<130> 2003320-0036

<140> 10/763,039

<141> 2004-01-22

<160> 166

<170> PatentIn version 3.2

<210> 1

<211> 174

<212> DNA

<213> Alien to Mouse cDNA

<400> 1

atggttgggg actgcctctc cccagtcgga tgggccacct ctgcgtacac cccacctgat 60

ccggatgagg ccagatacac ctgtaaggct cctgaccaat tcaaaaagac acgcacctgt 120

ttgcgatccc caaagccttg cctgtcgata agtgcagagg aactcttaat gtga 174

<210> 2

<211> 651

<212> DNA

<213> Alien to Mouse cDNA

<400> 2

atggcctgca ccctggtggt agaggccccc ttgtcaaaaa ctcccgactt gactggtgac 60

ttcaatagct ctttgtcctg gtcttgctc gacaataacc cggttttggg attagtgcag 120

ctcaagggtgg cctcctcctc tagctataag tcggaggaac ttgatctgga gcttcccaag 180

cgagccaaga ttctggattc gatcagtggc acttggaac tccatcttcg caaggagttc 240

cgctcattg tgtgtatgtc gcatgcctgg aaccggcggc atgcagctga tttgaaccgg 300

tgcaaatgga agggcaagag ggcaggctgg agagggggccc ccgtgctttt tgctcccatg 360

caggtgacgc gcaagtgtgc accagacccc acagagcagt caggcctctt cgataactct 420

ttcctggatc actaccagag tctggcctgc atttacctag gctcccttgc ccgaaagggc 480

tcttctctga ccaaggatgg aaagggtgat tttcagggcc cttgccttcg tgggtggccag 540

aattattcga acttttctca gagctcagcg tgttggaaac cgctggacga ccaggaacag 600

atcgcccgtc ccctcagtgt ctcgttgtag tatgcagcct tagtgggctg a 651

<210> 3

<211> 229

<212> DNA

<213> Alien to Mouse cDNA

<400> 3

```

aatgccaaag ttgttaaacc tgattcgggc agtcggctgc tgtgagaaac agaccctcct    60
ggctgccgag agcctcaatg accgggagga aatctcctgt ttgttccggc gaaacctcct    120
ccagggaatg cttctgggag acagagcaga tgacaatacc agtgaccaca cgatagtctg    180
ctacaccttc atgatccctt cccacgccag gatgcctgga agtaggtag                    229

```

<210> 4

<211> 174

<212> DNA

<213> Alien to Mouse cDNA

<400> 4

```

atggaagcag agctctgttc acgaggcgtc aacagacgtg acaatactaa acttccactt    60
tcgtctttgc cttcagcttc tcctcatgat tccaagagat gtccgcgctc taagatcgct    120
cacgtctggg acaccagggc cgacggtgag atcgattcgc gaatcttgta ctga          174

```

<210> 5

<211> 306

<212> DNA

<213> Alien to Mouse cDNA

<400> 5

```

atgaactctc tgtctgaata cgagacctta aggcggacca tgctgcagag ctctaacaag    60
tgtaactctc tgtgccaaat tgtacaaact tgggttgagg gtggcaaggc caaggccaat    120
atgaatggct accagaagca tttggttcca cttcgcgttc aaatgtggga gatggcaatg    180
cgacttaatg gaaccagcc aaatgaattc caccggcag tccagcagtg catcctggct    240
ccttacctaa agactttcct cagtatgcgt cctgattcgc aaacttacct ggccaagctg    300
agctga                                           306

```

<210> 6

<211> 156

<212> DNA

<213> Alien to Mouse cDNA

<400> 6

```

atgcctcgag ggcgtactct ggtatctcgt caagcatggc gaacagtgac cggtaaaggcg    60
ggatgctctg ggcggtatcc aagagagagc gggaccttga gtctatcgca tttttccctg    120
gggattatgt ctaagcggag ccaggaggag ctctga                    156

```

<210> 7

<211> 135

<212> DNA

<213> Alien to Mouse cDNA

<400> 7

Mod-0037.ST25.txt

atgatgcagc cttgctccaa acaagaaaga atatgcgga ctcctgactc cagcatcgag 60
tccgcgtacc gctcagcctc tctcacttct agccctgcca cgcttgctcc ggccttctct 120
gcctgcccct gctaa 135

<210> 8
<211> 144
<212> DNA
<213> Alien to Mouse cDNA

<400> 8
atgaggcgag ccctggtagt gtgccccctg gcgggaccct ggaagaacca gcggtccatt 60
gccctggtagt aagatcttcc catgaacgcc agcgttgccct catactttat agaaaggggg 120
agcatcagct ggcattttctc atga 144

<210> 9
<211> 165
<212> DNA
<213> Alien to Mouse cDNA

<400> 9
atgggggtggg tcaagggcct gcagagtga agcggctggt ggtttgtatt ttctcaggg 60
cgagtgaagc tgaaacccga gccgggccta gcgctgggtg tacaccaggg ctttgaccaa 120
acagtcacag aatgtctaag cttcacagga aagcccatgt attag 165

<210> 10
<211> 561
<212> DNA
<213> Alien to Mouse cDNA

<400> 10
atgatgagct tcgaacattc cgacttctcc aatgtcgagg accgcaagct cttaacggaa 60
gcgatgtcca caggcttcga agtaatcgag tcgccgtgca agatctgcat gccaaagcttt 120
ggaggtaaaa caactgcgga tggcaaaactc acttccgtga cttagggcat gaaacactgg 180
tctctacca gagctagtc cccggaccag tcgcaaaagg gccgacccta caggagcacg 240
gtgcaagggg agattgaagc gggacagccc ccacatgaaa tctcctccga ctggtacccc 300
atgttcaaga tggaaacaga cagcccgatt aagaatgttc cccaggcaca catggggggag 360
ttcgggcact gcgacaatct ccccaatggc aacacagtga gcaaccggga gcctagggag 420
aatgggaatg tggcgccggg agtgggctta gacggacagg aagaaatggg ctggctttgg 480
ccggttcgtc cttcttgtat gaactatttc tttaaagcat ccactctctc cttttggatg 540
ggctttcttg agcgccgcta g 561

<210> 11
<211> 480
<212> DNA

<213> Alien to Mouse cDNA

<400> 11

```

atgggaaaaat ctcgctttga gtatgcagtg acgcccccttc aagcccaagc ccgcagtttg      60
ggcagatccc tgaataaaaag cccggtgttc ttgttttact ctgagactac atccctgcca      120
gccaaggatc tcccgtgtga gtcaggactt gctgtgagag acctgagcaa caggacacag      180
aacagtctag ctatgttttt ggcttcacgg gggatcaaag accctgaaat gaagatgaat      240
tattccatct atttggggca acccttgcaa gaaggtctgt cccccgtgca ggagaacttt      300
tctcaatggg aactcccact cgtggcttac atgagctttt tctgtccctt ccgtgcgggc      360
gaccgggggt cgatccataa tcatctctcc acggtcagag cgaagattga ctactgtggt      420
cagcgggtgca gtgcctcaga tccaaggagg ggccctcagg actattctca aatgctctga      480

```

<210> 12

<211> 231

<212> DNA

<213> Alien to Mouse cDNA

<400> 12

```

atgcgggaag agtccaagac tatctcgatc aatggtgtga aatggctcat tgatttgcca      60
gctgaaaaaa tcttcacgag gaactatggt gttgccgact gcaggagaag cttctacatc      120
ctgggcctgt ttggttgcca cctggtgact ggaggggtacc gaacattcat gatctacatc      180
gggtccattt cttctttcat catgtatgtg ggggtccgga tcattcgttg a                231

```

<210> 13

<211> 426

<212> DNA

<213> Alien to Mouse cDNA

<400> 13

```

atggtgcccc aagtgtgcga gcagtggagc ctgtgttggt cctcgggcgg gttcccaaatt      60
cctgcaggct cttattttaga gccgtggtca agcgacttgt ccaggagact tcagtgcccc      120
ggctacagcg gcttcttaag tggccccacg gatcttctct ctatgggagt gtcatgtcac      180
ctagcacagg aatcatttcg gttcccactg caggatgatt gcctcctgac caagatgcac      240
aggttgaaag atttctggga ctccaccagc aggtttaagc agctgggcga atctgaggcc      300
cctcagcaga ttcgcaagaa aaaatcatcg tttagtttct ggggctcatc ggagaactct      360
gcgccccgaa ccgaaaatac cagcaagaag tcccaggatt ctttctttga tgccatcctc      420
aagtga                                           426

```

<210> 14

<211> 192

<212> DNA

<213> Alien to Mouse cDNA

Mod-0037.ST25.txt

<400> 14
atgggtgtgt cgatggccag cttcatgctc tcttctggcc tcctggatgc agagggagaa 60
agcttcatgt cttggcatct cagcagccct ggaacagccg tggaccgaac ggcccaaagt 120
tttattcact tcagaatgat ggggtcaatc ttcagtgtta ccctgacgct tgaagtcagt 180
cggctctctgt ga 192

<210> 15
<211> 351
<212> DNA
<213> Alien to Mouse cDNA

<400> 15
atgacaatgg aaacagggag gcacccggtc atgaaggacc aagcccttga cgaatgcgaa 60
cggtcgatgt ggccgggtccc ttcttggggc tgggagagtt cttgttctca tcgtgtcgat 120
gagggagatg tatcgggtact gctggaacag tttcggcacc agactgaaca gctcccgccc 180
atgagctact ttttggacaa gccaaagctg tcttcgttcc aggaagagcc acggctgtgg 240
gtgactttat gccaggagac attgccattt cccctgggta attctgggta tgatgagcag 300
gaagaggagg gcctgtgtct ggtctgtccg ttgcccagac ttcagacatg a 351

<210> 16
<211> 153
<212> DNA
<213> Alien to Mouse cDNA

<400> 16
atgggtaaaa tcaatcacac cacatcgaca cctaccttga gcactttaaa aatccccaca 60
tttgaggcct tacgcccgt actatgccct agactggatc ccccccacctc gtctgtccgc 120
ctggcatttg aaggccagtc tcagaaattg tag 153

<210> 17
<211> 324
<212> DNA
<213> Alien to Mouse cDNA

<400> 17
atggttcgca aggttgctca caatgttctg tatgagacca tgggtcagaa agctgactca 60
aagtggggaa ccagaaagaa gcagccacaa gggacccgcc tgagcaaacc ttgcaccacg 120
gtggtggagt ggctgtctgc cttcatgtac cgatcccga agaaactgac gagccgcttc 180
tatctgaaac ctaacatgtc ttccggttct atccgctacg gagagcggca accactcttt 240
ttggacagcc tgctttgggtc cgacagtggg aagggagcct ttgcctcctg caaatgctct 300
tatgctaaat cattttttga ctga 324

<210> 18
<211> 450

Mod-0037.ST25.txt

<212> DNA
<213> Alien to Mouse cDNA

<400> 18
atgagcaact acctccacat tcgttccccg gagtcggtcc ataacacctt tcctttgtgg 60
gtccatattg ctcaagcaaa gttcggtcac ctacaagcct tgttaaagcg cgagagtggg 120
tttgaagcca acaccgcgaa tgctggggccg ctaggcccc gcatcagcga tgacactcgc 180
aatatccttt tgactggatt gttcctctcc ctgaccaaga agtgtggatg tgtccagtta 240
cagtgtggcc gacagagtag cctcgatgcc aaaatgccat gtgaccagca ctatagaaaag 300
gtgcagtctg ccctcagcca gggctctgcag atgggtgggtg cgtgggtgaa gcagaaagca 360
agccaggaga ttgccgggtg gctccacagc agcagccttc aagagcaggc cttggatgga 420
tcatccaact tcgccactct gtccgtttaa 450

<210> 19
<211> 720
<212> DNA
<213> Alien to Mouse cDNA

<400> 19
atgcggagaa ttaagtttga gttcaagaaa ataccttctg ttcgtttgta ccggttcttc 60
ttcggttctt gggctaagat ttctaccctg gcatttgtgg aggacaccta tacctatgcc 120
ttctggatgg aaggagcagg cttcactctt gtctcagctg actgcattac ttcccggacc 180
tttaggagtc cacttgccaa ggacccgctg gcttggcggc tcctggatct tgtgcgggca 240
aaaactcaag aagcgcggac gaactcagct ttgtccttga agtgctccct gcctgatttt 300
gggccactcg gggagatcaa cagagcccag gcctctgaag gccagcagac ctttggtctc 360
tttgagaagc cgtcagagca tgtcctaaca gcaaagaatc agctccaggat gatcataagt 420
tatcccttct gctatctgct catcataaccg gaacgtccat tcgacagtag caatatgtcc 480
ttgttcagta agccaagggg gccggccttg gaagtgattg gagtacgcct caagaccag 540
atgctagtca cgcctttcag tgagttccag ctatatccccc gtgcatttct cagagaatca 600
gatttgtctg agagctccct ctgggtgacg atctcttttg acacggcgaa tctgtcttat 660
gtccaagcgg ctgaggaaga gtgttcattg agaagttccc tggcttacac gtggtcttga 720

<210> 20
<211> 465
<212> DNA
<213> Alien to Mouse cDNA

<400> 20
atggggatga tgctcaactt ttgtctgaga atctactcca gcagaaaggg agacgccatc 60
atgtctggcc cttctgggtc tttccttaga aaaaagagtg tgccctacca aacctggcga 120
gcggagcagt ctcgtaagggt aagcgtgtgc tcctcgcagt ttactccca gaccatcttg 180

Mod-0037.ST25.txt

cgttggcggc	cccaggatgc	cgaaacagag	agacagagga	gaagcggcctt	caagctggcc	240
atgatggcag	cgggcaagtg	ccagcctgtg	aacgacccca	cctcttgctc	ttatgaagct	300
tacctaaggc	ccatctggaa	tggatatgagc	tttcttgatt	ggctgatctt	tgtcccatg	360
aaccttggtg	gacacagaca	cagcacctcc	ctgagcgcg	acaaggtcac	gtccatttac	420
aaggaatatg	caggctattc	cacctgctcg	tctaccagag	gctga		465

<210> 21
 <211> 216
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 21	
atgcagtact	gcgagctgc
cgcttccaag	ctgttcccag
ccttgccggt	aagggcccaa
	60
accctcagac	actacctaaa
tgtggcccta	cacaagtctg
ccctcctggg	agatctggcc
	120
tggcggcgga	actcggcagg
gggccagggc	tttatgactc
tagggccaaa	agagattctg
	180
ccagctcagg	tggccccagg
tggagagttt	ggatga
	216

<210> 22
 <211> 1188
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 22	
atgtatgcct	gtgctgctct
cagttcattc	cttgcccttcc
caaagtacgg	actgactgcc
	60
aagagatacc	caaccctgag
aacctattgc	ctctgcttat
tgtggaagtg	tgagaagcat
	120
attttgtggc	aggggatcaa
tctaacgatg	cgacagggtga
gtgccaatgg	gacgccccatg
	180
gtgaactggg	gggtgctgaa
gcccaccact	caccagattc
tcaatgggtga	cacagactgt
	240
ctgtgccgcc	cgaggtcatt
tggtttgaag	gccaatcagg
cccgccgacc	gaagaagtac
	300
caaggctgcc	tctcacggag
gtgctctgct	gacttcctct
gttcccatgg	ggctgttgta
	360
agagatcagt	gctcgatgat
tcaagtgtct	ttgagcacc
ggctgccggt	ctctaatacca
	420
tggattcagg	tcgctgtcat
gaagtctttt	tgttacagaa
ccaaggcctg	cgcatgtaat
	480
ggggggggta	aaaaagccct
atctgtgagt	tggcaaaaat
tccagaactt	gtacgtgaca
	540
cggaaagcaa	tcctagtttt
cagcatagct	aacaagggtt
ccctgactaa	gataaacatc
	600
cagcgggaaga	agctcagtaa
cagggactca	gtgacagagt
gcgtcttcgg	actaacctat
	660
aggagctttc	taggtaaacg
ccatgtattc	gaaggagcct
cactcttgac	gaacggaccc
	720
aaccaggga	ggagcaagtg
gccctgtgaa	acaataagcg
atcagtatta	ctgtttcaac
	780
aggaagtgtg	ctgagagcgg
catgtgcttc	atgttggtga
gtacctgcag	agggtacctg
	840
ccgccggact	acctgtttgc
agctctgctc	aagacagtca
gccggcacat	cgttaaagtc
	900

Mod-0037.ST25.txt

cgccaggtgt tgctttttttt agaacttttac cctggctcga aggctagatc aagcgatgaa	960
attccccacg agcacaataa gacgcctgag ctggaggaac ttccgcctat caacagctgt	1020
accagattg ccatgctcct ttgcagccgc tcctcagtga aaaccaagga cagtacgacg	1080
gcacctgttc tgtgttctttt tttccttaga ctgtttgctg aggaaatccg gctgcgctct	1140
tttgaacggg agtaccgcaa agattcttac aagtacctgc ggggtgtga	1188

<210> 23
 <211> 126
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 23	
atggatctcg atctgcggtt cattctgtta tggaaacagg aggagctggg gctgtgtcgg	60
tacctgaaaa tgagaaaatt tagtctgcag tatgggaaga caaaaaaatg ttcctcaccg	120
gcctga	126

<210> 24
 <211> 948
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 24	
atgggcagtc gcgccccatc gtctggtgat gaaactcaaa tccacgaact ctactcacc	60
ccccgggatc ccaccttaaa ggaggggacc aagaagggcc agctaagggc atccccgtac	120
ttccttcgtg caatgccgtc cttcctttca gtcaacacac cccaccagca gttctaccac	180
cgtcagcggg ccagctttca ggactacgcg ggagatatgg cctacatcga acttttcagt	240
cagatcagtc ctactgcgca aagagcacta cagatgccaa tcaaccctgc gaacgcgggc	300
gcggtatcca tggggaaatc tttccccttc tccatgcttt tgccctcga ctcctgtgta	360
cccccaacca agcgcgccgtt ccaaagactt tccattccgc aatctctgac cagcaagggc	420
cactacctga gcctgtatct gctggaagga gaaatcttag caggaaccat ctccaccgta	480
gcggtggtga ccaaatggac atctcagttc tacatgtgtg tgctggctgt cctttacggt	540
caacacgcac cttccttcag tcagagggct gttgaggttg accggaagtc ccaatccaag	600
gccccaaagg ttcaggaaat gtggcgagac gggattaaat tcacgtctgg taaactcctc	660
tcctgttgtg aggggacccg catcgccttt gactggctct tcccaaccag gttcatacag	720
attggacgtc cgggggagta cattgcagaa tgcttccagc ggtcccggag aaaggctaac	780
ttcctgaacg ttgacataaa cagctgtctg cgcaagagca ttgaaacttt ttttgggaga	840
aactatatgc acccgccgcg cgaccgcgtc tttttcaggg tgagtatccc ttgctgctat	900
tgggcactag agggaccctt ctgtgaatac cccaaattcc ttcacgct	948

Mod-0037.ST25.txt

<210> 25
 <211> 273
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 25
 atggaaccaa tcgcgcttaa catcaactac cagcggatgc tgctatcggg gcatagctca 60
 aaccagatga ttcatattgt gaacaaaatt gatcttgca ggacccccctc ttctgtaacc 120
 agatccccggc tcaatgactg tagaggccct ttatgcagaa aggaccaaaa ggctgagcgc 180
 gacagccagc ttggcaagcg ggtgcactat gcattgatcc ttcggttcaa tcggccaaat 240
 gcgcctgaca gccaggacta ttcgctaact tga 273

<210> 26
 <211> 198
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 26
 atgcggaagt cgctttcgcg caaactgcgg atggcctgct ccaagggcct ctccgggggtt 60
 cctgtctcct cttgtcacat gcactacttc gacgggtccc tgggtggtgcg gctgacctgt 120
 aagaggagac atggccttggt caaagaacag cagggtatcg cgggcacat cagacagaac 180
 ggcaccatcc taagttag 198

<210> 27
 <211> 213
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 27
 atgtattatc cagatattac gtatcccaag cccagcagaa ttattgagaa cttagatgaa 60
 attgtttctc agtcaggatc gattgaaaat cactcccgac cgatgattgg tctgcgtgtc 120
 aactctaagt ggatgccact tggagggggc ccctacaaga tgatgcgaag cagtagaaaa 180
 aaggtgagtc agtgccttct gaatgacatg taa 213

<210> 28
 <211> 675
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 28
 atgggtgatg tggatcatgac ggaggaaagc tgcagcgct tgggtgtttga aacatctgca 60
 atgtctgggt ttacaagac atggacaccc cggttctacg gagtgcaggg gcatcgtgtc 120
 tcggacctcg ctgctgttca acagccggcg cgcggtgagt ttcgaaggca cccttcaccc 180
 tctcaacgac tgtgggcact cctgggtgca tgggtggcgtg gatctggcat cctggactcc 240
 ggggccctgc gtgaaatgga gctgggcatc cagggtacca tacgattctg gctacctact 300

Mod-0037.ST25.txt

gcgcgctcgc ggagttgctt gctctgccga tgcctggggg ctgagatcca ggctctcaag	360
ggcaacaacc agaactcatt ctatcgtcag ctcttccgcc aagcttcgta ccgttatctg	420
agatgtagtt tggcgtaccc atcgatgggt gacttcttgc cattgcagcg cggcaagtgg	480
gttctcctgg gcagagggaa gcctccaggg caagctcgag ctctgaagcg cacaggggat	540
ggcaaggggc aggctcgatt aagaacaagt caacttgttc attccctggg agagtatgtg	600
caggttttcc ctttctatcc agaggaccta atgctgagta aagaccagga agacagccaa	660
cagagagtga actag	675

<210> 29
 <211> 609
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 29	
atgtcaagtg aaacttcacc ccgcctgata cctaagtcct ggagtagagg gcgcagcgaa	60
atttcaatcc cttccatcat tgccctgggt gagctgcttg cccgttggag gctagtttct	120
ctctccattg gcaaacgtct tatgcatcct ctgcgccaga catacatgcg aatttttcca	180
cgaaccttta ttgtcagtaa gatccctgat ggcattggaga tcatgctaag caagtggat	240
gtggctaata gaactcccga gcccaagagg ttctgcctga caaccagtca atggctgagc	300
ctttacatga tttcccatg cacatcatac tgcagactcc gcgcatcagc aatgccgcga	360
ggcaggcggc ttgaagcctg gcacggactg agcaaggctg ccaaggagat cactgcatct	420
cggatgtatg cggagatcct cttgtccgag ttaatgccgg tggagactta tatctgttac	480
ttcccgaacc tcgaagccag atgtccacga aaatccccgt tttcgcgtga tgaatggagc	540
atgataagcg tacctttgat caacagtgtg ttccgcttgc gcttctcctg gcttgccctct	600
gggccttga	609

<210> 30
 <211> 789
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 30	
atgttcacat tcaccagagt tgggtggcct cggtcccatt ggagatccgc cgtggggaac	60
agtgaacgac ccctcttcat atgggcagcc ggtgccctgc ggccaagga acctcttctg	120
tttcggttgg aaaaaggccg ggggtgtggc gagctgcgga gaaggctgag atttttacag	180
tgtgaagcta tgtattcgaa atttctgggg atccctgaaa tgatggaaaa ctccaaggcc	240
gtgatcgtca atttttgcac caaaatcgga cgcagggaaat gggagtcgca agcgtcaatg	300
ctcccacagc tgtcaaattt catgacaccg cccagtgaat gcacgctaag cagctcagcc	360
actttgagga tgagcctcct gtacttcgct tctgcaccca ctaacaagac aaaaattaag	420

Mod-0037.ST25.txt

ggtgtgaatt tctactcgcc tcccaaccac atgcccctta agctgctaga gtgcttgaga	480
catgtgaacc gcgagtgcctt caccaacctg ggataccttc tggcttatat gaattgcagc	540
atggacatcc ttaagggcaa gatttctgac gtgatgggac cgcgtgcctc agaagtcaac	600
tcaacagaca gtactatgtg ggtcctgtca acaggagcca cccccaccgt ggttctcatg	660
gaaacaacat gtgccccctt gtcttggagc tacctgcctg ctctgtatga tgcaccgcgc	720
ttcacatccg aaacctacat ctcccttgct gaagcctgtt atcgaagcca ggcctttcag	780
caaatgtaa	789

<210> 31
 <211> 258
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 31	
atgtacctca tggcactgaa tatagagcct gaagatctgg cgggattcag caaactcact	60
atggacctgt attttgatga atatgcagat tccatgttgg acaagagtcc cggcctgac	120
gaatttctga ccgttgggac tccgaagtgt cttctggggc ctcggtgag tggtagcgat	180
gccccatcgg ccagtatcgc tcgggactat cgccccatga tccaacagggt gggctctgggt	240
gtcaacttgg tcacatag	258

<210> 32
 <211> 264
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 32	
atgatttccc acacaatctc cgagatcctc accgaagttc agcggcagtt cttctttctg	60
gcctgcaggg gcttcttcta tccgcctctc atgggtggcc gtgaagcttc tgaaactcag	120
ggaatggaat acggcaaggg gtggaacacc catgtccagt gtcgtaagt caatgattgt	180
gtgtgtctgt tgggggaggt ttatgagaaa ggcataagat acagttgcag tgtgagttac	240
agatccctgg cctacctgca atga	264

<210> 33
 <211> 210
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 33	
atggaacctt tgtctgcatt accactcgag agcgcattga atgacaaaaa gttcagtacc	60
aagacgggggt tgccaagcgg acttaaatgt ggagagggtg ctccagcccc agcccccaat	120
ggcttgtcta ggaaagcttc caccagggtc caacagacgg acgttcgtgg caaccagcag	180
catgggtctta tcatgatgca gatttgttga	210

<210> 34
 <211> 375
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 34
 atgcacggca tccactactc gctccccacc cagactgctg acaaagcctt aggtgtgggc 60
 atttcctccc aaggccagat tcctcaggca aatgctggca acctccccctt cgccgatgag 120
 ccgggatggc agatgctcag gatgggtggg ggagaagacc agtcccgggt cacaacattt 180
 gtcttgattc gattctgtgt aatcttcgtc ggcagggtgcc aggatatgta cctgctcaaa 240
 acaacgccac ctgaactgcg ccagaatctc atgtgcctga agatggagtg cactagcgct 300
 ctcaagctta aggatgcgca ggtgcagctt gacctcacgc ttcccttttg ctacgccgcc 360
 acggtgtcgg cctaa 375

<210> 35
 <211> 135
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 35
 atgtcaagct tcaactcaca gtacttcttc ttcgcactgg aaccacgtg gtggttctct 60
 atgggacctg aggacattgt gatgcaccag ctctctcttt ttttcaggct gtgtggagct 120
 gccagttacc ggtga 135

<210> 36
 <211> 231
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 36
 atgtgccaga gggagagacg attcacatac ccgcagatta gccactgcag ggaattctgc 60
 agaggcttca cccaaagtaa agaacctgga ggacatgaca cagctgagta caaggatctg 120
 gctgaagccc tgccaatgaa gaacttcagc tgtccgggtg tggaggagag tttcctttac 180
 gcaagcgaaa tgagagcttt tctcaagcag caattcgata gttggaggta g 231

<210> 37
 <211> 180
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 37
 atgtcctggg tgctcaaaca gtttaaggta atgcgagcca gacctcaatt cctgatggca 60
 acttcaacac aggggggaatg caccaagaac tggaatgtga ggtggaaaat atgggatctc 120
 tcaatgctgc ttgactctca taacacctct tactttttaca tttgcgatcc ggtagtttag 180

Mod-0037.ST25.txt

<210> 38
 <211> 123
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 38
 atgcattggt cccagggtgaa actggttgag cgcttcagta atagcaaaga gacgggtgct 60
 gaagatgtgc tagaaaatgc catgccttct gaaatggcct ctacccttgg agaaagcccc 120
 tag 123

<210> 39
 <211> 147
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 39
 atggattcgc ccacgacatt cacaaagttc acaaactgga ttttccttta ttctgtgagg 60
 gacgaccacg tgtggctggt atctccattc cagcagttct gcttcccctt atcctctgcc 120
 gcacctgggc cgctggcatg caattaa 147

<210> 40
 <211> 339
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 40
 atgagaaagg atttggagtg cctcctgtcc aaaggcacat cgaatatgct gaagagtttt 60
 ctgatctgct gggggaaggc taccctccgc ttctgcgaag aaatgcctct cacccttgag 120
 atggttcacc tctacatgga catccctgat gaacgctggc ctccctctaa ccagccattc 180
 tttggaaagt tctactcgac tttcttcagc cgccacagcc ctggggccca gctccaccgc 240
 cctcaggggtg caggaaggac acagctgtca gaggtcgtgg gcaacttgcg gtgggatcaa 300
 tactgttggg gcaatcctca aacgcgcagg cccagttga 339

<210> 41
 <211> 354
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 41
 atgccctgcc tgggccgaca ggaactcgcc cgcgcgggag gtgtgccagg aagtgcggat 60
 cggaggaaga aagcgttcag gttggaagaa gccagatata ccctgtacat ggagggtcct 120
 ggatctgaga cgcaaggggc agcaaaggat caggccccct cgttccggag cccgagaatg 180
 gccctgccct acctaaagact ccggcccatc aagagagttc ccatcatctg gcggatagtt 240
 tttcagagcc tccaccctgg cgagaagccc agggagacgt atggaaacgc ataccgggga 300
 gaagcggccca gggcagagtt cacccaagag tctgcaagcc aaagcttcac ttga 354

Mod-0037.ST25.txt

<210> 42
 <211> 267
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 42
 atgaccttca tgaacgtatg tatagccggg caagatgcaa cgcagccata ttatagggcc 60
 agttacaata gccacagtaa agttcacacc ttggaatgtc gagttgagct caaactcaca 120
 gaattaatgc gctgtgcgca tagaggaaag ggcacccgta ccacgcgctg tcttatcact 180
 gccgccttaa ttctgtgtcc cccacactcc aaagaattcg cgtacaacaa cttgctcatt 240
 gcttcccaca cttggggcaa tgattag 267

<210> 43
 <211> 210
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 43
 atggcaccgg acaggtccac attctcttac ctgtgggatc ctcaggatca ccatcaggac 60
 gcctccccta gttctccaat tgccaggggtg tcatcacctg ccttccgggg ttatgactca 120
 gaggacctcg catgcagccc cccctttcag aatgcccagc tttggtgcaa ttcgagaaac 180
 tcaactgtaa tgctgtacct cacactgtag 210

<210> 44
 <211> 942
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 44
 atgagcgtga gggaacgtga ggcttcagac aaatctttct ttttggtctt tgcatttttt 60
 ttacgaagca gtttcattgg gttcatgaga cagtctttgc atagctgtgc gaaagcacgc 120
 tgcgcgacgt tcaagcccca ggaacgaatg tgtaaccagc ggaccatggg tgccaacgct 180
 ccggaaccca ggctgatgac actgggtgtc cgcttggtcg gccatggcgg ttgcacaata 240
 gtcacttctg acccccgatc cccccagggt gagaaggccc aggatcgcta caacctcatt 300
 cggttgcccc tgtaccggc tgcttacatc ccctgttact acatgaatgt gctatccatc 360
 tcaagggaac ttgagctgct attgagctca atccagggtg aaatgagaca cccagtgagc 420
 aacccgggac agttatacta tatctctggt cagggtggatc ccggctgtga caggagaatt 480
 gccaagtcgc ctcgggatga ccagtcggga tctccccggc agagagatgc acccagctac 540
 aagggtttcca cgttttaccg ggctagcaga gctaagagta gactaaaacg gacagacccc 600
 aagaggacct catccagtca ttccacgttg attttgttta tgctaattctt ggacacttcg 660
 aagttcatgg tgaagtccag ccggactttc actctccttc ttcaggactt ccattcagtg 720

Mod-0037.ST25.txt

acacggaatc agagctccag atttcagttc aggcggaatc aggaaacagc gagatctcct	780
ggagtggcca ctaaggagac gggagcgttg acacagatgt cacccttttc tccgcagtac	840
cgcagagtga ctgagtcgtt tttcttagtg cacggttctc tctctccacg tcggtgcctg	900
gagccctacc ctttagccca actggaggaa atccagaagt ga	942

<210> 45
 <211> 357
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 45	
atgacctacc tgtggatgaa ggcgatcagc agtcatgcca agctgccggc aaacttcacg	60
atacagtcac tctcccagtg cattcaggaa acaaccgcaa gtcctgatag agaactcctg	120
acgatgctga agcccacaag atctcaagaa gagacggacc tactgaatag actgtggccg	180
gataacctct cttctctgac ggagatgcca atctcccgtt gtctgtgcag aagcatccgc	240
ccttacacct cttcagcgga ctccgtgtct aaagagatgt gccagttttg gcaggtggcc	300
tttggcgagg ctggcaagcg tgaggactgt cctctttacc ccaggtcaat cctgtaa	357

<210> 46
 <211> 129
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 46	
atgaaatcct gcgtggatga agaatacagt cattgctatg ggtccgcgcg gtgggaagcg	60
cttaagcaga gcacggggtt tttcgccact cgtgagcgag agagcggctt caagcaggat	120
gggtcctga	129

<210> 47
 <211> 156
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 47	
atgctgctga tgccagagtt gttagaaaca aaggactcaa tggaagccga atccaaattg	60
aagagcatca gcatgcagaa ggctgagttc aaagaggggg gcatttcttt aggaaaacgg	120
ctcacatcgt acccgaaggt ccctctggaa tcttga	156

<210> 48
 <211> 240
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 48	
atgttcgcct tcttagatct gactagtttc attctcgcgg gccgggcttg gtacactacc	60

Mod-0037.ST25.txt

tcaccctctc ctgacaccga aatctggcat ttaccgcctt ctggtgctga gctgtgcaaa	120
gcttgccctct tgcgaacccg caatgcgaca acagactctg agtaccacac tatttcccgg	180
aagtacttaa ttgaccccat ctcacagctt tcgctgttta ccttaatgca cctgctctga	240
<210> 49	
<211> 138	
<212> DNA	
<213> Alien to Mouse cDNA	
<400> 49	
atgatgagca agcatcacac cccaaccacg gtactctgct gccaaaatga agacctgcag	60
ggaaccccga ggctgcgagt gctgaaccca aatcaaaata cctggggcat catcaacttg	120
gcctacagaa gcatgtga	138
<210> 50	
<211> 201	
<212> DNA	
<213> Alien to Mouse cDNA	
<400> 50	
atgaacgaca tgcattgcgt ctttgcgacc aaaacacgta tcaccgagag gggaaataag	60
ttctttctcc agccctcgac caactggaac acgttccagg cagaggagca ctgtcagtcc	120
ctcagagcgc cactccgtac cagcggatat tatggcccct catgctcagc gtacctcttt	180
gatatacttc tgatctcgtg a	201
<210> 51	
<211> 240	
<212> DNA	
<213> Alien to Mouse cDNA	
<400> 51	
atgatgacgc ttgggtttgt ggaggcccaa atccactctt tacctctgac tctgagcgtc	60
ctctgctgtt tgaaaatgga tcagatggga tccattgagc ctgacagaaa gaaaacccca	120
gagctcgagc tgatgcccgc actcttggcc ccgagtcgtc agccaaagtt cctgccagcg	180
gcggatcttc tcccagaggg tgctcagacg tctaccctcc tcctgggtca ggcagggtga	240
<210> 52	
<211> 123	
<212> DNA	
<213> Alien to Mouse cDNA	
<400> 52	
atggaagaga atggcctggc acattcctac actgggggtga agttacgggc caatgacact	60
ggctccctgg cgctgcgtaa gcagtcagat gtctgtgttg agtcccagac agcaagtgcg	120
tga	123

Mod-0037.ST25.txt

<210> 53
 <211> 156
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 53
 atgaccttgt tcctttccgg cctgtacccc aagtgggccg tgagccagag ccactatcaa 60
 tcctgggagg gacccgacat cgctgaaggg accatcgagg atcacctgga gcgcctcaaa 120
 ccggtcatga gagccttgat taatggtggg acgtaa 156

<210> 54
 <211> 225
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 54
 atgacacagt actggaggat tttgatcgtg ctgcgaattg atctgccggt ctccttccta 60
 cagttctatg gagagagccc ccctcagtgg ttttgccgcc ccaaacgctg cttaaaaagg 120
 tctcggtcga acggactaaa ggcacgatgc aattggcccc ctgttagctc tcgcacctac 180
 atcaagttca agacaatgtc ctatgctctg aagtggacac cctga 225

<210> 55
 <211> 882
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 55
 atgatttgt tgaagtacat cctcttgctg tgtattttaca taaacctcct ggggtgcaga 60
 aatgcaaaga ctagctgtga gtgtcccagg ccgaccatta ggaagtatgt caggcagcct 120
 tcaatctctt gttacatgca ctggtgctgc catcggaaca caggtgagca gactgacagt 180
 ggtcttacac ccaggcatga tcggcgtagc cctgacatgg ctaagggtca gcaatgggtt 240
 gtcccggcaa tgggcagttc cgggggccat gagccgaact catctgcata cttatgctcc 300
 agaggaatat acttcagaga ccggaatgaa tgtgccgagg gcctgctcca cacttggtccc 360
 ctggtgtatg acttcgtgat agaactaaca caacggttcc cttacaactc ctcgggtcac 420
 ggcattgaag acatagaatc cttcaaaaat tggaacttgt accggacttt cgtcatctcg 480
 gagggctata aactactgaa catcaagaga tcaccaaagt ctgagttatg ctcaggacgt 540
 atggcttttt ctttcctccg gctgtttctg ttccacaaga gacagccccg tggtaaaatg 600
 gcaatgcgct atgagggcaa gtggatcttt cgtggggaag gcacagagag tggcgttgctc 660
 cctctcaggg tcggactttc caagagcgca ggcaaagata ggatgtgtca gacccccatg 720
 accttagcaa ccaagggctc aaataccccg ggcctgcagg gctaccgcct catcaagctg 780
 aagtgtgctc acctgtgccg gatggatgat caggagaggg cgggccgggc catggccatc 840
 ccattcaatg gcaaggggtg ggtgacactg tctatgctgt aa 882

<210> 56
 <211> 264
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 56
 atgaagcttt gtcctatgag gtggctaggc ccgaacaagc caaacaacct ccacctgtat 60
 ttgccgccta tggccccata ccgccacgga ttgagggtgca catttttcaa ggccgacttc 120
 tgcaggggacc cctgttggac aaatatgtgg ccaatcctca ggcgaaatct gattgcgcag 180
 gcagggctgt actgtccgtt tcagggtcca ctccctggaga tgtctgattt ctccgctaac 240
 cgagaagaaa tctgggctgc ctga 264

<210> 57
 <211> 327
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 57
 atgccggttg cgcggtatcc cagtgcacgt ctcaaactgt ctctgaaatc caaggcctgg 60
 gtgttccatc aaaaccctac tgggcccttc acgacaaccc ggcccgtcgg ccgcctgcag 120
 gggcggcagc agccccccct tggagggtcag aagaagttgg ccgaggagca tcctagacgc 180
 tccctggcca aactgaaatc ggctggggcg agcactgggg gacttaatat tggggatgat 240
 cggaccttcc cgctgtgcac gtcggcctcg ctccagcagac ccctcaaccc taagagtaaa 300
 cagagcaaca ttatttgcac ctccctga 327

<210> 58
 <211> 225
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 58
 atgacaggta tcttttgctc ttatgccact aaagctggaa ctgcaatgtc cttgagattg 60
 cccctgtaa aggccagcaa tgcctgtgac ctgagccctg gaacatgtcc tcaggaccta 120
 gatagtgaat tgatcaatca ccagtattgg aatcgccctgc ggcagattca atgcggtttg 180
 aaatctattg acatctttgt caaactaaga ctttctgtca gctga 225

<210> 59
 <211> 339
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 59
 atgaaatacc ggtgcttggg gcagctcact gcctcttaca ccatggcgga atatttggca 60
 ttggcaaaaa caggattatt tcccaatagg ggttttcctc gcaagacaga ggggacttgg 120

Mod-0037.ST25.txt

gagtccagcc tgcctcagtc cttcgaagat aggggaggct caggacgcct gacctcactg	180
caccagttcc ctgatgtgat ggccaaagag gaccggaaaa ccgaggactt tgcggtcagc	240
tctctcccag agatccagcg cgtctccacg ggccggccag atatgagata tatgccggaa	300
tacattgata atggcccccg cagcaactgt gtgttttag	339

<210> 60
 <211> 321
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 60	
atggacggag actcccacta tcgcacaggg gggaccaagc aggataccct ggtccagtac	60
acattgctcc ctgaaattga ctttttcggg gggattgctc agaatatgat gatcatgcga	120
gttgccagaa cccccccatt tgttcagaa caccgtcagc ttatgcagga tggagggcca	180
gagcagagaa atatggaggc ccgtgaacca gccaccggc tactaaggc gatgtatgtg	240
tcatgcaaag cagaagtcaa ggggatggtg acgagcctct ctggggtgcc gacctgcggc	300
ctgccatcgg aaaaggagtg a	321

<210> 61
 <211> 192
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 61	
atgcagatga ttgtcccaag tggggagaca aagatgtacc ctccgctgga ggccctccag	60
gaggatgact gtatccaggc ccagtggctg cacacaacct ccaaagctt ccatgagtta	120
gtgttaagga atgcagtccg cacaccatca aaggttacca aattcccttg caaaaagttc	180
tgcgtcatTT ga	192

<210> 62
 <211> 666
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 62	
atgagctgcc cttttcttct tcgtggcatt cagatgcctt ctctggagag aaccttcgtg	60
tcagatcctg gctattccat ccattttgga tctgaaatgc ttgatgttgc tcatcttgct	120
tctggcacag agcaagtcca ctgggcgaca ctagaatgtg actcgcagct cggaaggaca	180
cttgagcctc ttgaggagat cactctaagt tgggtgttgt tcctcctcaa gttcttttca	240
gaagacatct ggaaacttaa atccaaagaa cgttccggcg atgacatgct tgagaggatc	300
acatcaatgg agctcttgct gccactgaga cggctagaac agctaagctt ctattccttc	360
ttctctcagt gtactgccct tcgccggagc aagaccagcc caccaattcc tctgtgcgtg	420

Mod-0037.ST25.txt

tccttgggca gttgccataa gcagcaaaga acctggctgt acaatgcact gatcaagtac	480
ggggcttcga ggagaaggaa ggtccccaag cggatgcca ttgagagtcc gttcagcctt	540
gatgaggagt gtcttcatt ttcagtaatg cggcaaagg agacacggac aattggcctc	600
acacccatca tgcagttcct gacctgttcg cccgtaaaga gtgtggatcc gagccggagg	660
gcatga	666

<210> 63
 <211> 1311
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 63	
atgatcactg ccaaagatga gaccagatgt ctgcattcct cccgagtaga tcggtatcgg	60
acacttgccg acccgatgic tgaggagatg tcgtgttgcc tcctggttgg gcgcgttcac	120
gccaagggcc tctttgacaa aattgtccta atccagaatc cttcatcct ccacgacttt	180
ttcatgcggt tcccttctcc ctcccaggta cctctatata agcgtacaa acaagacctt	240
gataaggacc tgtgttccag cctgccttg tactacaacc cgaagctgcg gcagcgact	300
tcgcagctca cctacaagct ccgcacaatc tctgttgcc caagacaaga ccatggcacg	360
aagacgtctc tccaatgct gactattacc cagggtgactg cactgagcga cctgagaatt	420
tttttctctg gatttgggga ggacctcccc ctggagccct ttttctcact cttttcgtgt	480
tatcggtgcg ctttctgggt ttacagttc ctgctctata caaggaatgg cctcaagtac	540
agcaaggcgc atgacaaaga gtgtccatgg ccttcatgt ccaacttccc acatgcccgg	600
gcctgtcggg gttggctgtt ttcgtgcttc agaaagacaa gaactttacc ctcatcgcac	660
agcgtgaggg agatagtctt agcctcaaag tcctccgata ggtacatgaa gcattcagt	720
catcggagct gcagttcaac agagggtgcc gaatccaaga cgagcctgga ctgtcttaat	780
tcaatgcaga agaagaagcg tagagatgaa gaattactcc aaacaaatga atttatgatc	840
tcctgtggat ccctggctgt gcaataccga agcatctccg gcataattta tttgctccgg	900
gagcagcatt acatgcacca gaccgcacc agttttcagt ttaccagga ccaatcgttc	960
ctggctcggg agaatcacia ttgggggggt gcctctaata actacctcct gcgcgagaag	1020
ctggatggga agccaatgag aggcagatg ctgtcccaac acagcgtggc atgtggtttg	1080
cagggcaaac ccattgcaac caacctgttc aagccttcag tgaacttggc agaagagttg	1140
tctgtgaaat aactggagc tttcctgcgc tcagacgccc tgctacagct ggctcaggcc	1200
ggactgtggc cccagaagcc gtacctgatt tggagaatca ggggtgaaaa gaccacgaa	1260
tggggcacgg gtgaactggc gctgagcatg gtcctgagct gcttagactg a	1311

<210> 64

<211> 306
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 64
 atgtgctatc catcgctga ctggagaatt gtgataataa cccagttact gaatacgaga 60
 tggatcgag tcagggcact cttcatggca agtggacgca agccttggtc aaaggtgatc 120
 caagccgccca ttgcctcaat ggcacagctg ctctatgtgt caaaggccag cacattagta 180
 gggctcagtga tggaggggaag cgaggactgc agttgagagt ttcctgatat gcctgggtatt 240
 atgggagatg tcccttcccc aatgttcact cttggcatga tcctgccatt aaccttggtt 300
 caataa 306

<210> 65
 <211> 264
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 65
 atgctgacac tttgcatgat cctccaggcc cgcacaaaga gaatgatgga tggatctgaa 60
 agtggagtggt tgcagttcct gcggagtcgc tactcagggg acctgggaga tcccatggca 120
 tttctcgagg atgattccag aagtaagccg acggagagaa ccggccttcc tgtggagatc 180
 cacatgatgt cgtttctgga ataccatggt gaactgggtca acttcttctg gcgcagaagg 240
 cagcttcagg acgaaggact ttaa 264

<210> 66
 <211> 285
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 66
 atgcacttgc actacgatcg catgttattt atgcagcacg aaacggttgg tatatctatt 60
 tcgcagatca atgacctctc ttgcaccacg tcaccagcca cgatgggcag gtgcataacc 120
 tggggggccca cgaggacaac ttttctgctc tttcgggaga ctgatgtcag ccacctgtgt 180
 ttgatcaaac agctgagctt cttcagtcag atcctgcagt acaagcagct catgtcgaac 240
 atatcggagc gcacgggacg atacatcaga agctaccatc tctaa 285

<210> 67
 <211> 663
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 67
 atgaggcact accctgcttg gcaagcctca gccatgctct ttgagtacac tggggatggt 60
 ctccagcagt cccctagtct tctgagtctg ggctcaattg ccaatacggg gatcatacga 120
 acggaccggg cccacagga gcgaacgtcc tgccataatg gtgaccttat caagagtgcc 180

Mod-0037.ST25.txt

ggcacctccc tgctggatat gcgagatccg catgtgtcag cggagggagt gactccctcg	240
aacctgatga tctgcaagac tccaccctct ggtttctgcc tgtctcactc ggactgctct	300
ggagaaaagc agatggctctt gagaatgtca gccagcaata tctttcaggg tcggaaaacc	360
ccggcctctc cttgccagtc gacagctacc tgcattctct ggtactccac ctcaaccctg	420
gctgactata ttcggcagtt ttacctgtgc acccgagcga atgggagagc tccccgccag	480
aactgcattg gcatgggcat actgtcattg tattctccgg tccagatcga ctcccctccg	540
ccccagtgcc caacacccct gttgagcctg gtcggccggg tgacgagggg gtcacagcag	600
gttgggggtgc aacgagccct aatgctgggt acgagcacc ctctgctcaa ccgccgcaag	660
taa	663

<210> 68
 <211> 120
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 68	
atgcggattg atgaaggac ccaggaggag tgtgagctct gcgctctggg cacgaagagc	60
ccagccatca tttcgctctg acagtacaga attcgaactg tgggtttcat gctcagctga	120

<210> 69
 <211> 249
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 69	
atgctatcgg aggcctcgag agatcgctg acggaaatgg ccatgatgac agattcttat	60
cacctgccaa ccatgcctct ggccccctgag tactctggca cgtttaggga aagctcttgg	120
cgaacatctc cacatgcgat tgatccaggc tggcagagcc aggtgtgtga gcagcatgat	180
aaccgcttga acaggagtc aatcgctcag gtcgcttatc agagagggat ctggatgagc	240
aagaactga	249

<210> 70
 <211> 438
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 70	
atgtacatgc cgatttacga gcccagatg gagatgtccg gtcagcccag aatcgaaaag	60
gcccacatcggg atggcaagtt agcgaccag ctctcttccg aatatttcac cgagaaggag	120
ctagacctgg ttgacatgc tgagtcttac ccaatgatag tgggagattt tgggggcacg	180
cccaccaaga attcaatata gacccagcgg ggatcgatct acggcctggc tcagagggag	240
atcagcttta aattaatgtc catgtccagc agttggaaga atgtgggaag gtatgcagcc	300

Mod-0037.ST25.txt

cccttttgct taggtctctt tccgcactac gggaacatgg aactacggga acttctgttt	360
tcccacatga aagcgcgcga aaccagaacc acgtcaaccg agtctctgac atccatcaga	420
ctcaggtcag gctgggtga	438

<210> 71
 <211> 489
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 71	
atgctgagat acagccggat ggccatcaag caacagcttg accagggtggg ttacacacgg	60
tccctttcat tcacggacct ccacttgacg aacaagcagg caggccctga aaaacatggg	120
aacttcaacc tctggggccg catccgggat ctcaggatgc ggtgtatcct gaagttcagc	180
tggggaggag aggtttttgt tcttcaatca agttgttcct ctgactcttt ctcagttgag	240
attgagttgg cagagggtgag attcctatcc taccagaact cacggttgcc agcgccacgc	300
accgactatc tgagtgcgag ccgcacttct aaaacaagct gttctctgcg cgtgttcata	360
ttgggacacc agctaaactg ccctctgtgc actgctgctt cttttattga agggaaacta	420
tgtagcaacg atactggaga ctacagctgg ccgcaagcgg gccctgtaa ctgggtccgct	480
tatctgtaa	489

<210> 72
 <211> 303
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 72	
atgattggaa aagatgagat ctatatgctg tcaaaggggac atcagccaag acgtaggact	60
ctgaaggcct caacccccaa cctgggtcagg cccaagccgc cctgcaccat ctctgtgcgg	120
gccaccttaa tgctaactctg gtttcccttc cagtgcctga tagctaagat gcagttgacc	180
ctggagacct ggtctccctg gattatctgg ctcaatctta agggatggcc ctgccggatc	240
ctgccgctta tgtacccatc aagaaagtct gcagctgact aactgactc tgtggaaaac	300
tga	303

<210> 73
 <211> 141
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 73	
atggggctct ggcggaccct gagggccgat gtcaagaaca gcgatccatc ccctttacag	60
aaagggacga aagctaagca ggtggagagc cggaaaatca tggagtacgc gcagacagag	120
gggcacatca cgttggagta g	141

Mod-0037.ST25.txt

<210> 74
 <211> 180
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 74
 atggctcggg acctcctggg aacaggaccc ttttcgcacg aacgccggaa ccagcaaaac 60
 gctgagttgg gaactgagag tattatcctt ctggatggag ataggagaag tgcgcgcaca 120
 tctggcaaga ggttcaagaa ggtatcctat tacttccagt gtgactgcct gacgctgtag 180

<210> 75
 <211> 141
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 75
 atggagcttc cccgctccag taagcctatg acccgtatc ctgagcgcag cgggatgggg 60
 cactggtgga ttatctatac caagcattcc tccagagggg cctctaatat gatctgctgt 120
 ggtccagact ctagcaaatg a 141

<210> 76
 <211> 123
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 76
 atgctccagg accgctgctt cctcgcaaag tgcctcttat ccagcatggt atgctattac 60
 aaaaaaggct tgagcgaggc ttttggcgaa cccaatgaac agagctgcaa catgcggatg 120
 tga 123

<210> 77
 <211> 177
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 77
 atggaacaag gacctgccct ggaggaggaa aagtcagctt gccagagcct gaccttcacg 60
 tttctgagtc cctcgagagg caaccagatg cagtggaaact cccagggttg aagaaactgg 120
 actgtactgg tgccaaagga ttgtgctagt gtgtttaaga gttccatgaa cggctga 177

<210> 78
 <211> 174
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 78
 atgcagcagc cgttcgccag ttactccacc agtttcaagt caagtgatct ggcgactaac 60
 tccagcacgc agctgggtctg ttctggccat ccctcgggac ttcccttcgc ttcaatgttc 120

Mod-0037.ST25.txt

attagggcctt tgtcgcccc tgcgctgcgt ggccccccaa agctcggatc atag 174

<210> 79
<211> 363
<212> DNA
<213> Alien to Mouse cDNA

<400> 79
atgctgagcc ggtttcttaa ggcctttctg tttcggtgct ttcagtgttc tgagcgggaa 60
aagggtggtga agaagctctc aaccatccag attgagaagg aggagccgat cgccctgtct 120
tgtggttaagg cccccattc tgacctgaac caagtgtctc ccatgtttaa tttcgagttt 180
tttcatgggc tcaacgtggc cgagaacctg gtgtctggaa ctgcttcgca ggagaaggga 240
caatgctgct atggtttcaa cagcaaaggc cgctctgtcc gggcactgga attcgtgtgt 300
atcagggcct tcagcaacat ccaatcggat gactccagtg acgccccctt tggcctgggt 360
tga 363

<210> 80
<211> 462
<212> DNA
<213> Alien to Mouse cDNA

<400> 80
atgagcggga acctccgtat caacccatgg ctgactgcct gcatctgtgg ggaaaagtcg 60
actcagtgtg ggcctgctaa ggccgccaac aacaaacgct ttccagggga tcaggccaga 120
aagcggctgt attcgccatc cccacccatc ctgaacacaa tgatcctctc ccctaaaagt 180
tgggtcacgc tgcattgttc gaagaagcag gccccacgt gttggctgct ctccaccgcc 240
aacttaaaat tccttccatc ccagttgcaa ccggaggcag atcgaaactt ttgtagctct 300
gattaccacc gcactctccc ttgtgcgcag gctatcatca caaatttgga gctgaaaatc 360
tggacctcca ccaaagcgaa cagtcccgaa cctgtggcga aagccctgga gttcaacacg 420
atagtgccat tgtgcaactc agaggaccgc tttattgggt ag 462

<210> 81
<211> 168
<212> DNA
<213> Alien to Mouse cDNA

<400> 81
atgtctccca acgacattca ggtgattaca ggcttgacc aacgcttgcc agtgcttctc 60
aacacccttc gtatgtctga caaggcattc actctttgct gcaagaagac caaccctggc 120
agcctgaaaa tgcagatgcg gaaccgtcac ccggatcttc agaaatag 168

<210> 82
<211> 207

Mod-0037.ST25.txt

<212> DNA
<213> Alien to Mouse cDNA

<400> 82
atgatgaaga ggcgaactct ctctcggatc tgcgacatat ggacagtgta cggatgcagg 60
aaatgtaacc attacagaaa cactattctt cagtccctgt ttctcatctt ctggattgaa 120
atgtgtgagg agcattccct tcattcatca ccgaggcaga ccgcctcctc ccagttctac 180
tcaccgagac tcaactccta cgagtaa 207

<210> 83
<211> 144
<212> DNA
<213> Alien to Mouse cDNA

<400> 83
atggaccgcc cacacatcgt gtccatggcc tttttgaact gcgcttcctc agcggccatc 60
ttgaagggcc ataaaaatccc cctgcccata aagatcctgc gcttcgatcc actctctcaa 120
agtactgaat ttcctcgggg gtag 144

<210> 84
<211> 132
<212> DNA
<213> Alien to Mouse cDNA

<400> 84
atgatttttc acctgctgtg ctttgctaca ctcgatgtga ccgtgacgca cacagtggcc 60
actgaagcct cgaatggaat gctgatcacg ccctctgaag aaatcaccag caccaggccc 120
gtgatattgt ga 132

<210> 85
<211> 192
<212> DNA
<213> Alien to Mouse cDNA

<400> 85
atgtgtggca caggggtag tttaccttct cagataaaac atgaaaacaa ctttttattt 60
cccgactgga caatgctaaa caagccggaa ctgtacattg gcgggattga ggagaactac 120
tgccagtaca aggggtcccat ctggatcttc aggggtggacc cgcagtcaga aggccagcgt 180
ctgaagttat ga 192

<210> 86
<211> 492
<212> DNA
<213> Alien to Mouse cDNA

<400> 86
atgatgtttg aggcctgctg cccactcgcg gattcgcagg ggaagagcaa gtccaaggg 60
ctgaggaagg gagaatctac cccgcttgga ggggggcgga agttcctgat gctgtctacc 120

Mod-0037.ST25.txt

agcctcagca tctactcgtg tattaacatg ggccccatct cccttaacgc acacattgat	180
gataacacac tccatcagac attcatgtcg cgctcagtcg ttgagcggct agttggaacc	240
tctcaaaagt tcgatacaca ccctcatatg tgtgctgcag atgctcagta cacaaagtct	300
agacggtgtg agcaggcctt ttgggcaccc ttgtgcctg cgcttgtttt ctccatcctc	360
tctcaagaaa tgggcgacac ccccaagaaa aaccggtgtc tgaagggtcc ccagtgcctc	420
aagcgctgtt gtcaagagtc ctgcctctct ggtggctttg taatctttga caatccagtc	480
tgctacttat ga	492

<210> 87
 <211> 222
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 87	
atgaatgcag aggacatgct ggggaaacac tgcgcttatg ctttttgcac agtccctatc	60
ccgaagggag ctgtgaactt gaaaaccgag tttgagagtg gctgtgcgaa gtctgccaac	120
ggcaactccc gcaaagacag tgtttcaggt ccatgcccta agatgaggca gaagtgggac	180
tggggacccc gagaaggagt ggctcggaca ggagaattct ag	222

<210> 88
 <211> 150
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 88	
atgagagtga gggcacggct gtcaatcccc ttcaccacga gatccatggc cttttgctac	60
cggaagtcgg gggacaccgg ttttgttgtg cagaaggagc cccaggatcg gtacacggga	120
aggaaatgtc aaccctgtact gatgacctga	150

<210> 89
 <211> 297
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 89	
atggagaagc tgtcctggcg tgctggcctc ctccactctc aggatggaat aaccagggcc	60
gcctaccccg gaaaagagca gtcttccccg ggccgcaatg cgaccttttg gacagctcag	120
cctgactccc gggcggcctc ttactcccag ctctctgtcc agaagtatcg aacaacagcg	180
atgtgcctgc ctgtgtccat gtctagtaat ctggctctcca tggagcagcg gttccggcac	240
aagctcatcc agtggcgggt gtgtctgaga atgtctagtc taaccattat gtcatag	297

<210> 90
 <211> 129

Mod-0037.ST25.txt

<212> DNA
<213> Alien to Mouse cDNA

<400> 90
atgtctttga cagatcttct ttctttctgt gttctgagag taatggccaa acatctcaca 60
gactataggg cctcagctca gcttgggtgc tgtgaacagc aggcttctgc atccccgaccg 120
gaggaatga 129

<210> 91
<211> 123
<212> DNA
<213> Alien to Mouse cDNA

<400> 91
atgacggcct tgggggctgc aagttatagc cgttctgttg tctatgatgg ccatccgtct 60
gcgccagagg gtggggccaa gcgtggcaag cagggtgaagc catggttcaa gcaattggaa 120
tga 123

<210> 92
<211> 435
<212> DNA
<213> Alien to Mouse cDNA

<400> 92
atggtgtggc tcctaccccc cttaccattg agccactgta agaatccttt ccttcgtaag 60
tgcttcaagt ttgagcgctc gtgtgcagga atttcttgct ctgatacgcc gccctactcc 120
tgccgctcagg ccgagagctc cacttcatat ttttaccat tctcaatgac cagaagcacc 180
atgaccatcc cagaccaaac caaaacctgc caggcggtgt ctgtgaccgc gttccccctcc 240
cgggaggaaa agaccaagaa cctgatgaca ttctgttaca agatgcatct gcagatgggtc 300
ggctatccgg tcaaagacac gttcctcaaa gaggccaaagg actctgattc ttcagggact 360
gagtttgagc tgggtgaatgg gccacctttt tgtgggctcg ggattcagtt gaactgctgt 420
tccccccagt cctga 435

<210> 93
<211> 198
<212> DNA
<213> Alien to Mouse cDNA

<400> 93
atgtccaagg agattcatct gcctgttctg agccggggccg gactccctcc gagttgtgag 60
aagcttcgag gctccccctc tgtgctctcc atgacatttg cctaccccct gcccaagcgg 120
agccaccagg caatcgccac ggcgtcccgg gagctcatgc taaccttgga cccctcggcc 180
aaaggaccgg ggtattga 198

<210> 94

<211> 726
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 94
 atgcccgcga tggccactgg cgcggagtgg gcctctgccca cacggatatg cgaccgttat 60
 gcgacttccc acgtgaggcg catgagatca ggggcaagac tgatcaaaca gggagtggag 120
 ctgatcaagt accgccccac cacttgcccc tacatagcca tggatgctcg cgaccttttg 180
 cgacacattc ggagccccga atgggaaccc tactgctact gtctgacagc tatctcaagc 240
 tcaaagaact atcttctgct gtccgtcagg gcccctccat tctcgcaaaa gaaacgactt 300
 cccgtggagt gggtccttca gtgtaccccc atctgcaagg cctttcaagg gtcaacttca 360
 tacaagctga acatgttctc ctcttgccgcg cacttagcgc ctttgacttc aagggattgc 420
 aaaaagtcaa tcatgaggcg caaccattgc tactttttatc ctttcctgga tggagcagga 480
 ttcccggggg ccattacatg caaaatcaga ggatgcattc tgggcatgca gaactctccg 540
 gtggggccgcc ttaatgggtg ctgcaagcag tctgtcaggg atgatgagac aaaggcattc 600
 ctgcagcccc gtttggtcgg gacgtcaatg gtggattatg tgccgctgca actattctgg 660
 gagcaagttc cgctcctcaa gtgttctctt aaccaataa gcttgaaagc cgcagggacg 720
 cagtga 726

<210> 95
 <211> 159
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 95
 atgtcttatg acttacggtg gcttcaccgt ggggccacaa tcacagccga aatcatctta 60
 tcttgtaagc tcccaaaagt gagaatggat ttctgctggg tgaagcagtc catggaggcc 120
 atggtggcca tgaaggacca gaaagacgcc ttttgctga 159

<210> 96
 <211> 318
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 96
 atgaccagaa gctgggccct ggtgccaccc cacctgttgg ttggagccga aacaaccctt 60
 gtgacttcat atgggtacaa agcgaagagc aacatacgct ttgtgttctc tgaggctttt 120
 gaggtcaac agaggcacga aagccgttca accaaccatg cctgggcccc gccagcaggt 180
 cgaccggtcc atctcattaa ggggcaggag aaatctaggg aaaatttaga tccgagctgt 240
 cccaaaccaaa agggagcgga ccggagtctc acaaaggatg gaacaatgaa gcaacgatac 300
 gacttctacc tgccgtaa 318

Mod-0037.ST25.txt

<210> 97
 <211> 732
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 97
 atgaagtatg tttcccagga agcccacctg gtctatgttt atatgtatgc ggatcactac 60
 ctcagcagtg tgctgtcttc ccaagatggg cgcccctcaa acttcatcac gcgcctgaca 120
 aatgcgagtg acaagtggac taacaagacg aagtccatga aggacagcta tcagggtttg 180
 tgggagttgc ctgggacctt ggagctgaga gcacctgaca tggagctgga acttctgacg 240
 aatgggaaag ccctgatggc gatccgcatg atcaacatga agaattcccc gcaggatgcc 300
 aaagaggcct cgtctgcgat catggccaaa gttcccagtt tagttgtgcc atgctccggc 360
 tactttgcct ggcggcagaa gggcttggag cgcaactttg atctgaaagg ccaaagtgtc 420
 aaatacagaa aaaatacagg tcctggcctg tctccacctc aggtgaggac ctcctatcag 480
 gaaaacctgg ggacacccct tctgccacca attcagatga tgagctacct agtgatttcg 540
 gacctcccc ggaggtctaa acgtgattgc aggcgggccc gtggagtctt tgccccacgc 600
 gagggactag ccaaagaaca gggcaaaagc aagctccgcg cagcttacat tcacaacaag 660
 ggtttcgagg gcctgactcg tgaacaagtc caggggtatg ctgagagctg tgacgttctg 720
 ccacagcagt ag 732

<210> 98
 <211> 132
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 98
 atgggcacaa agcccttctc actcaaggga aagagctaca agcagcctaa cctgaaaatg 60
 caccctctcg tgctccctt aaacagattc ttgtgtcagg gtgctgcagt tgcagagcgg 120
 aaaatgcggt aa 132

<210> 99
 <211> 441
 <212> DNA
 <213> Alien to Mouse cDNA

<400> 99
 atgaatgggc tcctgcacac gacatataag gagaagacgt cgtatccgcg tgagggtgttt 60
 gggcatagtg cagaaatttc ccgcctgtgt cctctgcctt ccagttccat ggcaacccccg 120
 ccaaattgacg tgaatatggg gatccccctc aaaagacgtg cgctgacgaa cacctatggg 180
 tctgcttcga ttcgtcagat gacgccgatt tacaacccta ccgtctctgc ctgggtttac 240
 tcgagccaag aggcactcaa gtgtcgttac ctgggcttcc ggcggagaat tgaaatgccc 300

ttttgtttta gtggtgcggc caacagatcc tacaactttt ctgctaagga acgcttgggt 360
 cacgcacctg cctgtatccg atggcacaga ttttatgga tgaacttgga catgaaaatg 420
 ttgactgccc ttcgcatctg a 441

<210> 100

<211> 70

<212> DNA

<213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 100

aaccaatccc atcccagggtg tgcggcgaat cggtcgatct agtcctaatt agccggatag 60

gaaaacctca 70

<210> 101

<211> 70

<212> DNA

<213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 101

aagaaccac gccgtctaca tatcgggcac gtgctataac gactcaggag tatttaacga 60

ccgcacggaa 70

<210> 102

<211> 70

<212> DNA

<213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 102

acaggtgtcc tcaaaccagc ctgaaacgtt actaggtgaa gaatcaccgc ggttgctcgt 60

agttaagcga 70

<210> 103

<211> 70

<212> DNA

<213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 103

acccgcgtac acagtaggca ctctacggcg cgtttagcgt taatcaccaa ttttgcaata 60

gtcaccagag 70

<210> 104

<211> 70

<212> DNA

<213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 104

acggactacc tcggccactt catttggcga cctgcggata ttgcttacga atctcgatct 60

tccggattat 70

<210> 105
 <211> 70
 <212> DNA
 <213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 105
 agaagtcgtg tgatcgaggt agcactggga ttacgaaaa ttgccctacc ggtatacgct 60
 aggccatacc 70

<210> 106
 <211> 70
 <212> DNA
 <213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 106
 agccacata tagccacgc ggggtgctgac aacatatgtc gtatgctgagt aacgttttcg 60
 ttgagatgg 70

<210> 107
 <211> 70
 <212> DNA
 <213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 107
 atactacttt tgggtatgct agctacgtag tacccttcaa tagccgtcgc ttggtctctt 60
 gcgcgtcacg 70

<210> 108
 <211> 70
 <212> DNA
 <213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 108
 catctatcta tgtaagttac cggcatgggt tatggattcg tggaccgcga tgtgacgtag 60
 gggtttccac 70

<210> 109
 <211> 70
 <212> DNA
 <213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 109
 cattttaccg ttaccgggaa gcgtgtgtgt ctttatttgc gcgtaccag tgttgagaac 60
 gacggaacag 70

<210> 110
 <211> 70
 <212> DNA
 <213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 110
 ccatccgggc cataagttta tagtagcgat tgttttgccc ctaccagcga atcgcgccca 60
 gttagtaatc 70

<210> 111
 <211> 70
 <212> DNA
 <213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 111
 cccgagcttg cgctagtacg attatgtacc gctatgtcaa tttgacgccc tcgcactgcg 60
 gcactttatt 70

<210> 112
 <211> 70
 <212> DNA
 <213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 112
 ccggctcggg gtcaccgcgg aagtaccttt gagtatcgca cttatcggct ttaacctgga 60
 cgtaactaaa 70

<210> 113
 <211> 70
 <212> DNA
 <213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 113
 ccttgatgg gtaaattccc tcgtctacgc gtaacaactg aacgcgtagc gcgacggtct 60
 caggaaatta 70

<210> 114
 <211> 70
 <212> DNA
 <213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 114
 cttttccgtg ttactcggcc ggcaaggacg cctcgtacca tctttgatag atgtatttgc 60
 gtaaattcgg 70

<210> 115
 <211> 70

Mod-0037.ST25.txt

<212> DNA
<213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 115
cgcgaccccg actggtagtt gcgcgctcgc attaccgagt tcacatcgca tgtactacat 60
tagagaaata 70

<210> 116
<211> 70
<212> DNA
<213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 116
cggccacaac tctcaggacg catataagac gcggaaaggc atacacgtct acttagagac 60
accgagactt 70

<210> 117
<211> 70
<212> DNA
<213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 117
ctgcttaacc gttccagagg ggcgttcgta tcaaaaaggg tgcgatttcg atcacgtcgc 60
agtgactcat 70

<210> 118
<211> 70
<212> DNA
<213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 118
gaatggcatc aacggcgctg tacatagtct tctcgcttac ataatagcgc tagttgatag 60
gaaccagggg 70

<210> 119
<211> 70
<212> DNA
<213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 119
gagctgcaca cccgcagaca tcatagttag tgtaatcacg cacgtgacca gttaacccat 60
ttcgtggaga 70

<210> 120
<211> 70
<212> DNA
<213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 120
 gatggattca cgaacgagca cttagtaacg cctgggtactg acatcttatt gcacgtagtg 60
 gagagcctgg 70

<210> 121
 <211> 70
 <212> DNA
 <213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 121
 gcaacgacca gctacctgtt aaccgtatat cagagtcgaa tgctcgcggg actgttcgaa 60
 gtactcatcg 70

<210> 122
 <211> 70
 <212> DNA
 <213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 122
 gcagaattcc taaccatgca agcgtggcga ctcgtctctc gcaaagttct atacgaatca 60
 gcgatgggta 70

<210> 123
 <211> 70
 <212> DNA
 <213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 123
 gccctctcgt cccacgttcg ctcgtcttgt tgacactact gacgggtatc cctctaaata 60
 cttctctttt 70

<210> 124
 <211> 70
 <212> DNA
 <213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 124
 gcctcttcga tgggggtccgt ctggtcagta ccgacgaaaa tgcgacggta gatgtcagaa 60
 ttgattctgt 70

<210> 125
 <211> 70
 <212> DNA
 <213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 125
 gcgggctctt gtgcaaactt atggggctag tgactcgggt gtagcacgtt ttgcgaagac 60

taagacagta 70

<210> 126
 <211> 70
 <212> DNA
 <213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 126
 gcgtctatga caggtcgggc acttaggcgg cgacgcttga tgtttgagtc gcagatatta 60
 gtttataagg 70

<210> 127
 <211> 70
 <212> DNA
 <213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 127
 gctatctaac gcggtcttgc caatactacg aatggttgct acaggatatc gagtaccgca 60
 aaatgggggc 70

<210> 128
 <211> 70
 <212> DNA
 <213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 128
 gggggcaact ctccaaccga gcgtgaatcc agcgattatt atcctactcc atactattag 60
 cgggtatacg 70

<210> 129
 <211> 70
 <212> DNA
 <213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 129
 ggtacgaatc tcccattgca tggacaaata tagtccacgc attggacgca cccaccgatg 60
 gctctccaat 70

<210> 130
 <211> 70
 <212> DNA
 <213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 130
 ggtcgtaccc aacctgacac gagatgtcgg cgctcgtttc gattggacga tcggatatat 60
 gatcaagcaa 70

<210> 131
 <211> 70
 <212> DNA
 <213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 131
 gggtgttcca tgtactcgat actacctagg catcaggtgt atacgccggt ttggatgggc 60
 gttcggcaaa 70

<210> 132
 <211> 70
 <212> DNA
 <213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 132
 gtgccacccc aattagtctt ttgtccgggc caagagtacg acaacgggggt attttggtac 60
 tatatccac 70

<210> 133
 <211> 70
 <212> DNA
 <213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 133
 gttaaggggc tcgaaagatt tctactctcg acgtaccgtt ggcagcgcac taagaacggg 60
 taatgtgctg 70

<210> 134
 <211> 70
 <212> DNA
 <213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 134
 gttaggcact tgcgcgtcaa gcgcgcaaac cctaattacg ttctgtccac gcgctaggga 60
 tattcgtata 70

<210> 135
 <211> 70
 <212> DNA
 <213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 135
 taagatgcct gacgaaaaag tcccgtgtac ccacaacgga aagcgtgata tagatagttc 60
 ccttagcgcc 70

<210> 136
 <211> 70

<212> DNA
 <213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 136
 taattttggg ttgtcgaggc ataaactggt atgctcgtct cgctcgacga gcggttgaac 60
 gcctatcgct 70

<210> 137
 <211> 70
 <212> DNA
 <213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 137
 tattggccgc ggcgctaact tatatcgaga gatgtctagt ttccccaccc gttacatatt 60
 ctacggggag 70

<210> 138
 <211> 70
 <212> DNA
 <213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 138
 tattttccgg tactgagtgg aacgacatga agttggcggc caggtcgtta ttctcgagcc 60
 acgcaccact 70

<210> 139
 <211> 70
 <212> DNA
 <213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 139
 tcagatgtcg ttattaacgg gaaggtatcc gggtcactat cacggcgatt acttcgcggt 60
 gcgaaagggc 70

<210> 140
 <211> 70
 <212> DNA
 <213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 140
 tccggctccg cagacggttt aactcgaacc taaaagtcg tgtgaagcta ctctgagacc 60
 atgcgctctt 70

<210> 141
 <211> 70
 <212> DNA
 <213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 141
tctgttacct acattgtcac cacttgacag gcgcacgggtc gtttgtaaag cgactagcta 60
cgacaggtata 70

<210> 142
<211> 70
<212> DNA
<213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 142
tggagatgag aacgttggga gtatcaatcc ccggtgcaac cccctaatacc gacatgccgc 60
aagtatatat 70

<210> 143
<211> 70
<212> DNA
<213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 143
tgggagccta gagccagcat attacaggcg agctgttttc gcgtctctaa tgacgtgtac 60
gcgattctat 70

<210> 144
<211> 70
<212> DNA
<213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 144
ttagacagg gcgcgattgt atgggacagt ttacgcacta accgactcta caatgtagtg 60
tttgtcgggc 70

<210> 145
<211> 70
<212> DNA
<213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 145
ttccgcatga gatcaacgcg tgggtcaatac gtgttaagaa ccggtcgacg ccagctagac 60
ctaatacggtt 70

<210> 146
<211> 70
<212> DNA
<213> Oligonucleotides identified according to the present invention as alien to mouse cDNA and useful for hybridization applications.

<400> 146
tttcgactgg gggtagaaag ctccctatct gccgttcacg aagctacata ctggtctagc 60

gcgtgcacaa 70

<210> 147
 <211> 47
 <212> DNA
 <213> 10 Ng of alien B was PCR amplified with a forward primer and a reverse primer

<400> 147
 ttctaatacg actcactata gggcatctat ctatgtcagt taccggc 47

<210> 148
 <211> 48
 <212> DNA
 <213> Polymerase sequence

<400> 148
 tttttttttt tttttttttt ttttctaata actgaggtga tttccgac 48

<210> 149
 <211> 70
 <212> DNA
 <213> Alien oligonucleotides were first shown to be able to effectively hybridize with their targets even when included spots containing other oligonucleotides.

<400> 149
 ggtacgaatc tcccattgca tggacaaata tagtccacgc attggacgca cccaccgatg 60
 gctctccaat 70

<210> 150
 <211> 23
 <212> DNA
 <213> Anti-alien in spike control concept. Sequences of alien genes designed by linking four 70mer alien sequences together.

<400> 150
 ttctaatacg actcactata ggg 23

<210> 151
 <211> 69
 <212> DNA
 <213> Anti-alien in spike control concept. Sequences of alien genes designed by linking four 70mer alien sequences together.

<400> 151
 ccatccgggc catacgttta tagtagcgat tgtttgcccc taccagcgaa tcgcgcccag 60
 ttagtaatc 69

<210> 152
 <211> 70
 <212> DNA
 <213> Anti-alien in spike control concept. Sequences of alien genes designed by linking four 70mer alien sequences together.

<400> 152

taatttttggg ttgtcgaggc ataaactggg atgctcgtct cgctcgacga gcggttgac 60
gcctatcgct 70

<210> 153

<211> 70

<212> DNA

<213> Anti-alien in spike control concept. Sequences of alien genes designed by linking four 70mer alien sequences together.

<400> 153

gtgccacccc aatttgtctt ttgtccgggc caagagtacg acaacggggt attttggtac 60

tatatccac 70

<210> 154

<211> 70

<212> DNA

<213> Anti-alien in spike control concept. Sequences of alien genes designed by linking four 70mer alien sequences together.

<400> 154

gcgggctctt gtgcaaactt atggggctgg ttactcgggt gtagcacgtt ttgcgaagac 60

tacgacagta 70

<210> 155

<211> 19

<212> DNA

<213> Anti-alien in spike control concept. Sequences of alien genes designed by linking four 70mer alien sequences together.

<400> 155

aaaaaaaaaa aaaaaaaaaa 19

<210> 156

<211> 23

<212> DNA

<213> Anti-alien in spike control concept. Sequences of alien genes designed by linking four 70mer alien sequences together.

<400> 156

ttctaatacg actcactata ggg 23

<210> 157

<211> 70

<212> DNA

<213> Anti-alien in spike control concept. Sequences of alien genes designed by linking four 70mer alien sequences together.

<400> 157

catctatcta tgtcagttac cggcatgggt tatggattcg tggaccgcga tgtgacgttg 60

gggtttccac 70

<210> 158

<211> 70

<212> DNA

<213> Anti-alien in spike control concept. Sequences of alien genes designed by linking four 70mer alien sequences together.

<400> 158

tcagatgtcg ttattatcgg gaaggatatcc ggttcactat cacggcgatt acttcgcgtt 60

gcgaaagggc 70

<210> 159

<211> 70

<212> DNA

<213> Anti-alien in spike control concept. Sequences of alien genes designed by linking four 70mer alien sequences together.

<400> 159

taattttggg ttgtcgaggc ataaactggt atgctcgtct cgctcgacga gcggttgac 60

gcctatcgct 70

<210> 160

<211> 69

<212> DNA

<213> Anti-alien in spike control concept. Sequences of alien genes designed by linking four 70mer alien sequences together.

<400> 160

tccgcatgcg atcaacgcgt ggtcaatacg tgtttagaac cggtcgacgc cagcttgacc 60

tactgcgtt 69

<210> 161

<211> 20

<212> DNA

<213> Anti-alien in spike control concept. Sequences of alien genes designed by linking four 70mer alien sequences together.

<400> 161

aaaaaaaaaa aaaaaaaaaa 20

<210> 162

<211> 69

<212> DNA

<213> Anti-alien in spike control concept. Sequences of alien genes designed by linking four 70mer alien sequences together.

<400> 162

ccctctcgtc ccacgttcgc tcgtcttggt gacactactg acgggtatcc ctctaaatac 60

ttctctttt 69

<210> 163

<211> 70

<212> DNA

<213> Anti-alien in spike control concept. Sequences of alien genes designed by linking four 70mer alien sequences together.

<400> 163

Mod-0037.ST25.txt

gttaaggggtc tcgaaagatt tctactctcg acgtaccgtt ggcagcgcac taagaacggg 60
taatgtgctg 70

<210> 164

<211> 70

<212> DNA

<213> Anti-alien in spike control concept. Sequences of alien genes designed by linking four 70mer alien sequences together.

<400> 164

tattttccgg tactgagtgg aacgacatga agttggcggg caggtcggtta ttctgcagcc 60

acgcaccact 70

<210> 165

<211> 70

<212> DNA

<213> Anti-alien in spike control concept. Sequences of alien genes designed by linking four 70mer alien sequences together.

<400> 165

cggccacaac tctcaggacg catataagac gcggaaaggc atacacgtct acttagagac 60

accgagactt 70

<210> 166

<211> 20

<212> DNA

<213> Anti-alien in spike control concept. Sequences of alien genes designed by linking four 70mer alien sequences together.

<400> 166

aaaaaaaaaa aaaaaaaaaa 20